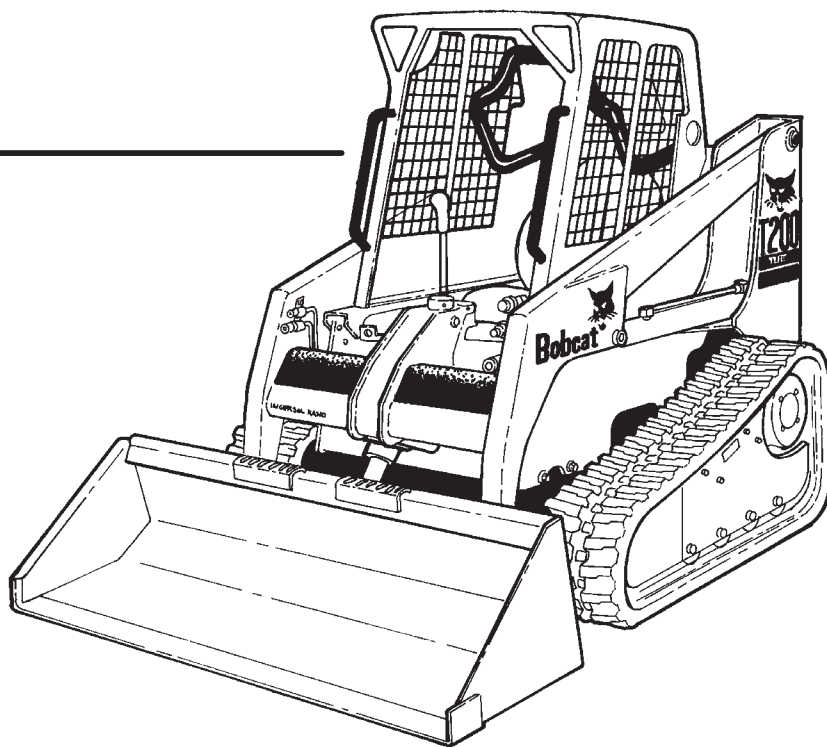


Bobcat®

Operation & Maintenance Manual

S/N 518915001 & Above
S/N 516815001 & Above
S/N 517515001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)

6901356(2-03) Revised (9-07) (4)

Printed in U.S.A.

Bobcat Company 2007

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FEATURES AND ACCESSORIES

Model T190, T200 Bobcat loaders are equipped with the following standard items:

- Adjustable Suspension Seat
- Automatically Activated Glow Plugs
- Auxiliary Hydraulics: Variable Flow / Maximum Flow
- Bob-Tach
- Bobcat Interlock Control System (BICS™)
- Dual Path Cooling System
- Engine/Hydraulic System Shutdown
- Instrumentation: Hourmeter Engine Temperature and Fuel Gauges and Warning Lights
- Lift Arm Support Device
- Lights, Front and Rear
- Operator Cab, Deluxe (with ROPS & FOPS Approval)
- Parking Brake
- Seat Bar
- Seat Belt
- Spark Arrestor Exhaust System
- Tracks, Rubber (12.6 inch wide)
- Turbo-Charger

Below is a list of some equipment available from your Bobcat Loader dealer as Dealer and / or Factory Installed Accessories and Factory Installed Options. See your Bobcat dealer for other available options, accessories and attachments.

Accessory Wire Harness	Lift Kit (For lifting entire loader)
Advanced Control System (ACS) (Selectable Foot Pedal or Hand Control)	Locking Fuel Cap
Advanced Hand Controls	Power Bob-Tach
Air Conditioned Cab	Radiator Screen Kit
Attachment Control Device (ACD)	Rear Auxiliary Hydraulics
Back-up Alarm	Rear Window Wiper
Catalytic Exhaust Purifier	Side Window Kit
Cab Enclosure Kit	Seat Belt with 3-Point Restraint
Cab Enclosure (Vinyl)	Seat Belt – 3 inch Wide
Counterweight Kit	Special Applications Kit
Cover Kit (Pedal / Footrest Area)	Tailgate Lock
Deluxe Cab Kit	Top and Rear Cab Windows
Deluxe Sound Cab	Warning Lights
Deluxe Instrumentation (With Keyless Start)	Four-Way Flasher (Includes Direction Signals)
Dual Attachment Control Kit	Rotating Beacon
Engine Heater	Strobe Light
Fire Extinguisher	Weighlog Kit
FOPS Kit (Level II)	
Front Door Kit	
Heater Kit	
Horn	
Hydraulic Bucket Positioning (Includes On/Off Selection)	

***Specifications subject to
change without notice***

OPERATING INSTRUCTIONS

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OPERATING INSTRUCTIONS

HYDRAULIC CONTROLS

Put your feet on the pedals (or footrests) and KEEP THEM THERE any time you operate the loader.

Two foot pedals (or hand controls) (Item 1) [A] and [B] control the hydraulic cylinders for the lift and tilt functions.

Foot Pedals

Lift Arm Operation [A]

The left pedal controls the lift arms.

Push on the bottom (heel) (Item 2) [A] of the pedal to raise the lift arms.

Push on the top (toe) (Item 3) [A] of the pedal to lower the lift arms.

Lift Arm Float Position [A]

Push the top (toe) (Item 3) [A] of the pedal all the way forward until it locks into the *float* position.

Use the *float* position of the lift arms to level loose material while driving backward.

Push the bottom of the left pedal to unlock from the *float* position.

Tilt Operation [B]

The right pedal controls the bucket.

Push the bottom (heel) (Item 2) [B] of the pedal to tilt the bucket backward.

Push the top (toe) (Item 3) [B] of the pedal to tilt the bucket forward.

Hand Controls (If Equipped)

Lift Arm Operation [A]

The left hand lever controls the lift arms.

Move the left hand lever away from the operator (Item 4) [A] to raise the lift arms.

Move the left hand lever toward the operator (Item 5) [A] to lower the lift arms.

Lift Arm Float Position [A]

Press and hold the Float Button (Item 6) [A] while the lever is in neutral. Move the lever to the lift arm down position (Item 5) [A], then release the button.

Press the Float Button again or move the lever to the lift arm up position (Item 4) [A] to disengage.

Use the *float* position of the lift arms to level loose material while driving backward.

Tilt Operation [B]

The right hand lever controls the bucket.

Move the right hand lever toward the operator (Item 5) [B] to tilt the bucket backward.

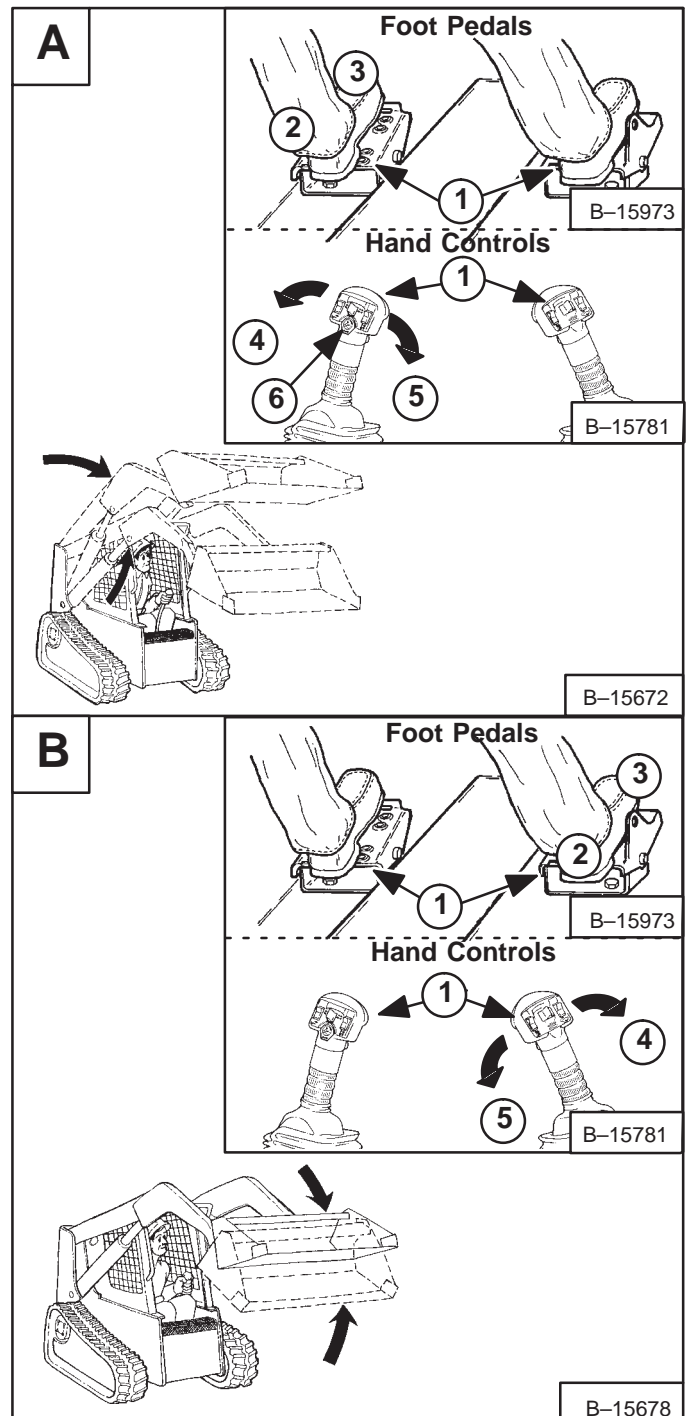
Move the right hand lever away from the operator (Item 4) [B] to tilt the bucket forward.



WARNING

Keep both feet on pedals while operating machine. Failure to do so can cause serious injury.

W-2002-1285



STARTING THE ENGINE (Cont'd)

Cold Temperature Starting

If the temperature is below freezing, perform the following to make starting the engine easier:

- Replace the engine oil with the correct type and viscosity for the anticipated starting temperature. (See *ENGINE LUBRICATION SYSTEM*, Page 59)
- Make sure the battery is fully charged.
- Install an engine heater, available from your Bobcat loader dealer.

In cold conditions, it may take up to 60 seconds of cranking to reach the engine speed required to keep it running by itself. The cranking can continue only if you know that the engine is firing.

Check the exhaust and listen to the sound of the engine. If the engine is firing, there will be smoke from the exhaust and the cranking speed will continue to increase.

Do not continue to crank if the engine does not fire within the first 15 seconds of cranking. This extended cranking time must only be done if the engine speed is increasing because the engine is firing and aiding the starter.

The LCD of the *Deluxe Panel* may not be immediately visible when the temperature is below -15°F (-26°C). It may take 30 seconds to several minutes for the Display Panel to warm up. All systems remain monitored even when the display is off.

Warming The Hydraulic/Hydrostatic System

IMPORTANT

When the temperature is below -20°F (-30°C), hydrostatic oil must be warmed before starting. The hydrostatic system will not get enough oil at low temperatures and will be damaged. Park the machine in an area where the temperature will be above 0°F (-18°C) if possible.

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Let the engine run for a minimum of 5 minutes to warm the engine and hydrostatic transmission fluid before operating the loader.

If the Fluid Pressure Icon light (Item 1) [A] (*Standard Panel*) or [B] (*Deluxe Panel*) comes ON when operating the loader (cold), more warm up time is needed. **STOPPING THE ENGINE**

Pull the engine speed control fully backward [C] to decrease the engine speed.

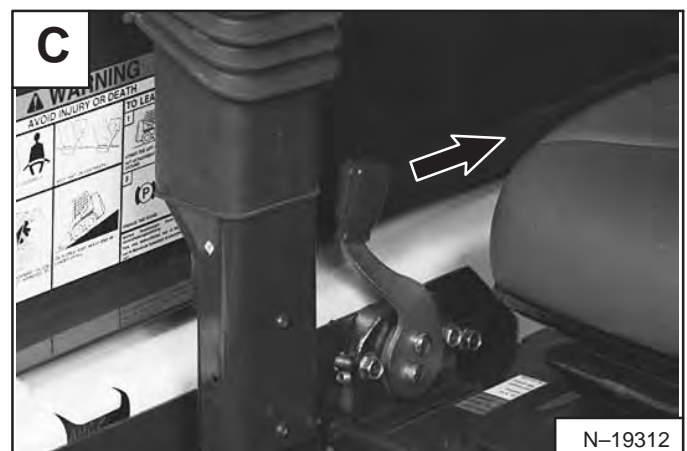
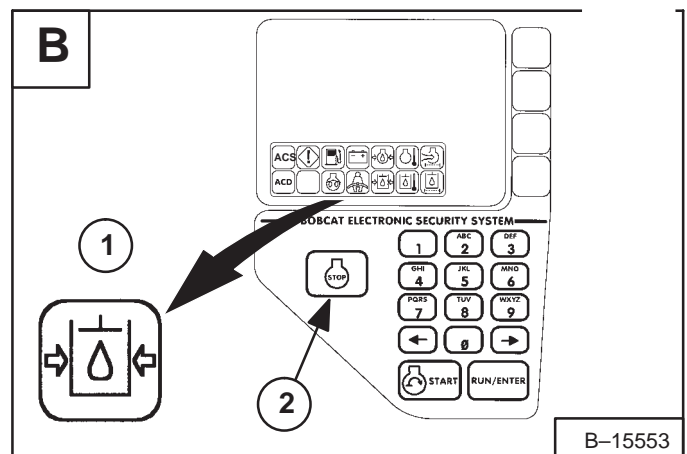
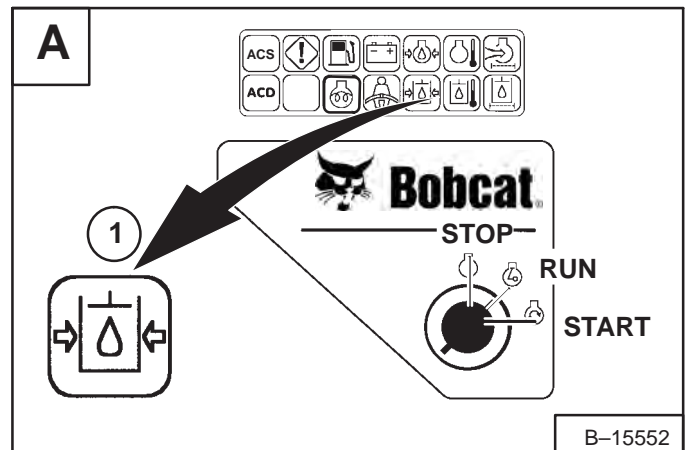
Turn the key switch to the STOP position [A] (*Standard Panel*) or press the STOP Button (Item 2) [B] (*Deluxe Panel*).



WARNING

Do not use ether with glow plug (preheat) systems. Explosion can result which can cause injury or death.

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OPERATING PROCEDURES (Cont'd)

Emptying the Bucket (Foot Pedals)

Push the bottom of the lift pedal (Item 1) **[A]** to raise the lift arms. Push the top of the tilt pedal while raising the lift arms to level the bucket or attachment and help prevent material from falling off the back of the bucket or attachment.

Drive forward slowly until the bucket is over the top of the truck box or bin.

Push the top of the tilt pedal (Item 2) **[A]** until the bucket is empty. If all the material is near the side of the truck or bin, push it to the other side with the bucket.

Emptying the Bucket (Hand Controls)

Move the left hand lever, from neutral position **(N)**, away from the operator (Item 3) **[A]** to raise the lift arms. Move the right hand lever, from neutral position **(N)**, away from the operator to level the bucket or attachment and help prevent material from falling off the back of the bucket or attachment.

Drive forward slowly until the bucket is over the top of the truck box or bin.

Move the right hand lever, from neutral position **(N)**, away from the operator (Item 4) **[A]** until the bucket is empty. If all the material is near the side of the truck or bin, push it to the other side with the bucket.

Leveling the Ground (Using Lift Arms in Float Position) (Foot Pedals)

Push the top of the lift pedal (Item 1) **[B]** all the way forward until the pedal is in the locked position to put the lift arms in the *float* position.

Push the tilt pedal (Item 2) **[B]** to change the position of the cutting edge on the bucket.

With the bucket tilted farther forward, there is more force on the cutting edge and more loose material can be moved.

Drive backward to level loose material.

Push the bottom of the lift pedal to unlock from the *float* position.

Leveling the Ground (Using Lift Arms in Float Position) (Hand Controls)

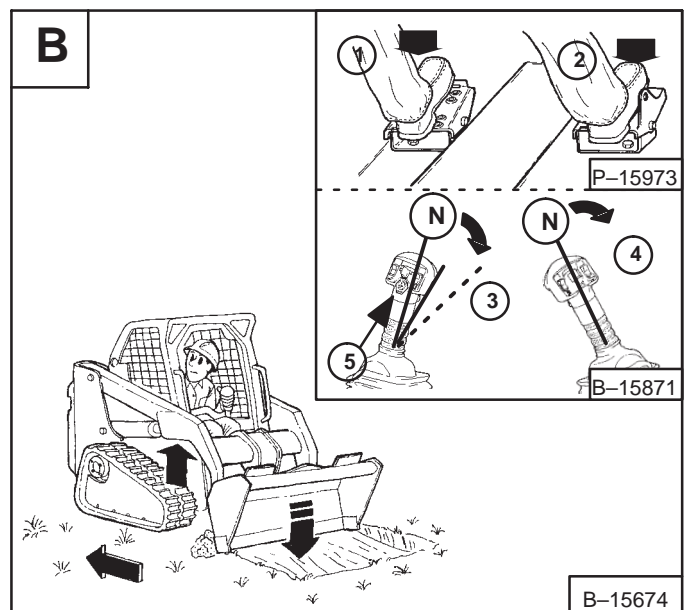
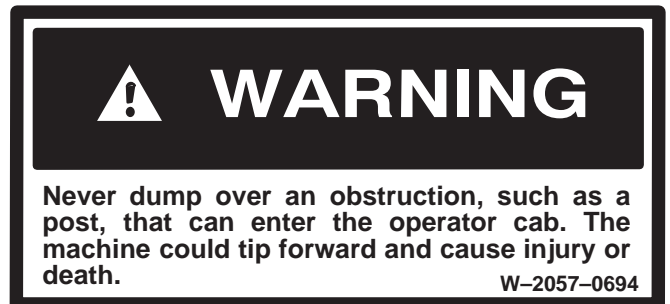
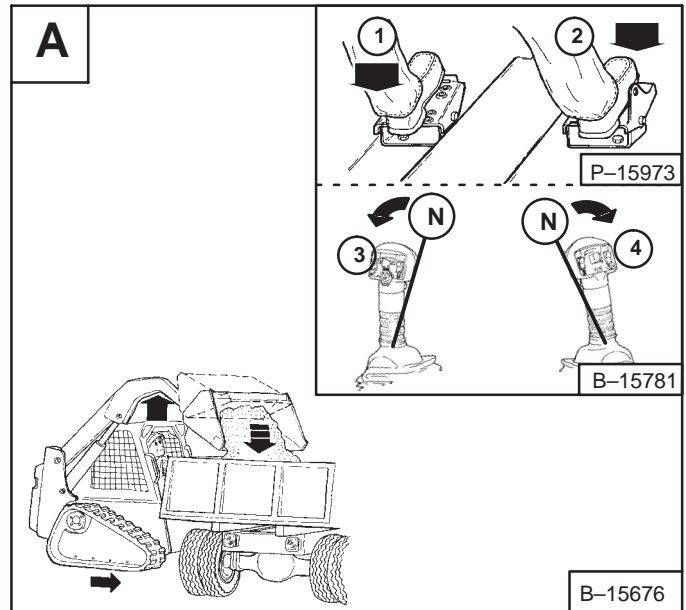
Press and hold the Float Button (Item 5) **[B]** while the lever is in neutral. Move the lever to the lift arm down position (Item 3) **[B]**, then release the button.

Move the right hand lever, from neutral position **(N)**, away from the operator (Item 4) **[B]**, to change the position of the cutting edge on the bucket.

With the bucket tilted farther forward, there is more force on the cutting edge and more loose material can be moved.

Drive backward to level loose material.

Press the Float Button again or move the lever to the lift arm up position (Item 4) **[A]** to disengage.



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SERVICE SCHEDULE

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the Bobcat loader.



Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0199

SERVICE SCHEDULE		HOURS					
ITEM	SERVICE REQUIRED	8-10	50	250	500	1000	◇ 3000
Engine Oil	Check the oil level and add oil as needed.						
Engine Air Filter and Air System	Check condition indicator or display panel. Service only when required. Check for leaks and damaged components.						
Engine Cooling System	Clean debris from oil cooler radiator & grill.						
Lift Arms, Cyl. Bob-Tach Pivot Pins and Wedges	Lubricate with multi-purpose lithium based grease (12 places).						
Seat Belt, Seat Bar and Pedal Interlocks	Check the condition of seat belt. Check the seat bar, and foot pedal interlocks for correct operation. Clean dirt and debris from moving parts.						
Bobcat Interlock Control System (BICS™)	Check BICS functions.						
Safety Signs and Safety Treads	Check for damaged signs (decals) and safety treads. Replace any signs or safety treads that are damaged or worn.						
Operator Cab	Check the fastening bolts, washers and nuts. Check the condition of cab.						
Fuel Filter	Remove the trapped water.						
Tracks	Check for damaged tracks and correct tension. Adjust as needed.	‡					
Hyd. Fluid, Hoses & Tubelines	Check fluid level and add as needed. Check for damage and leaks. Repair and replace as needed.						
Battery	Check cables connections and electrolyte level. Add distilled water as needed.						
Foot Pedals or Hand Controls & Steering	Check for correct operation. Repair or adjust as needed.						
Parking Brake	Check operation of the brake.						
Alternator Belt	Check tension and adjust as needed.						
Engine/Hydro. Drive Belt	* Check for wear or damage. Check idler arm stop.						
Fuel Filter	Replace filter element.						
Steering Shaft	Grease three fittings.						
Hyd. Reservoir Breather Cap	Replace the reservoir breather cap.						
Hyd./Hydro. Filter	● Replace the filter element.						
Engine Oil and Filter	Replace oil & filter. Use CD or better grade oil and Bobcat filter.		†	○			
Hydraulic Reservoir	Clean or replace the fluid.						
Hydrostatic Motors	Clean or replace the case drain filters.						
Hydrostatic Motor Carrier	Replace oil. Use SAE 10W-40.						
Bobcat Interlock Control System (BICS™)	Check lift arm by-pass control.						
Fan Drive Gearbox	Check gear lubrication level.						
Engine Valves	Adjust the engine valves.				∞		
Track Rollers and Idlers	Replace oil. Use SAE 10W-40. (Rollers-70cc, Idlers-100cc)						
Engine Timing Belt	Replace the timing belt and belt tensioner assy.						◇

● Also replace hydraulic/hydrostatic filter element when the transmission warning light comes ON.

■ Or every 12 months.

* Inspect the new belt after first 50 hours.

† First oil and filter change must occur at 50 hours; 500 hours thereafter.

○ When operating under severe conditions, change oil and filter every 250 hours.

∞ After the first 500 hours on new engine, adjust engine valves; 1000 hours thereafter. (See Service Manual for procedure.)

◇ Or every 5 years.

‡ Check every 8-10 hours for the first 50 hours. Then at 50 hour intervals.

TRACK TENSION (Cont'd)

Adjusting (Cont'd)

Decrease Track Tension

Pressure must be released from the spring and adjustment cylinder to decrease track tension.

Install the bleed tool (MEL-1560) on the *bleed fitting* (Item 1) **[A]**, adjust and tighten the collar to fit behind the edge of the access hole and the cover.

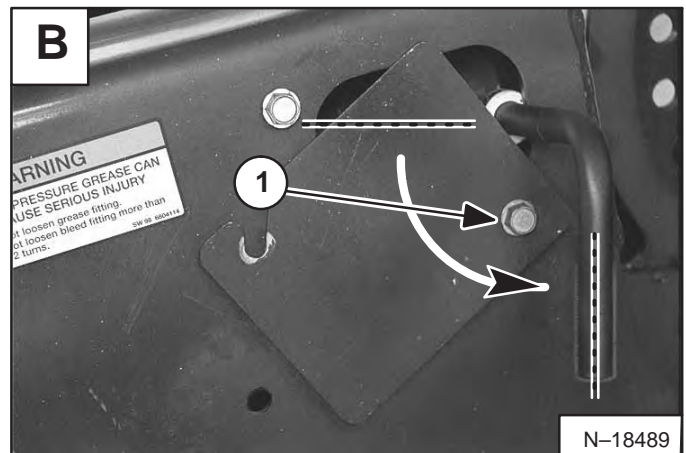
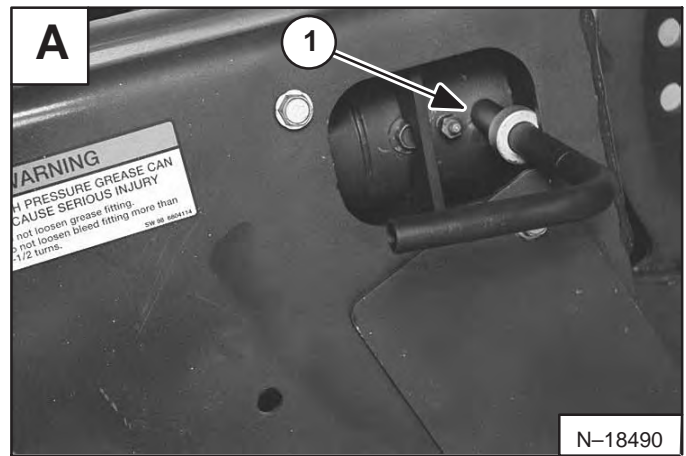
Tighten the cover bolt (Item 1) **[B]** to secure the tool.

Turn the tool 1/4 turn counterclockwise and let the grease flow into a container. Turn the tool one additional turn to continue to release pressure **[B]**.

Raise the loader. Remove the jackstands.

Repeat the procedure for the other track.

Dispose of the grease in an environmentally safe manner.



ELECTRICAL SYSTEM


Description

The loader has a 12 volt, negative ground alternator charging system. The electrical system is protected by fuses located in the cab on the steering control panel, and a 100 amp. master fuse [A] in the engine compartment on the left side of the engine. The fuses will protect the electrical system when there is an electrical overload. The reason for the overload must be found before starting the engine again.

Cleaning Battery And Terminals

The battery cables must be clean and tight. Check the electrolyte level in the battery. Add distilled water as needed. Remove acid or corrosion from the battery and cables with a sodium bicarbonate (baking soda) and water solution [A].

Put Battery Saver (6664458) or grease on the battery terminals and cable ends to prevent corrosion.



WARNING

Batteries contain acid which burns eyes and skin on contact. Wear goggles, protective clothing and rubber gloves to keep acid off body.

In case of acid contact, wash immediately with water. In case of eye contact get prompt medical attention and wash eye with clean, cool water for at least 15 minutes.

If electrolyte is taken internally drink large quantities of water or milk! DO NOT induce vomiting. Get prompt medical attention.

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Fuse Location

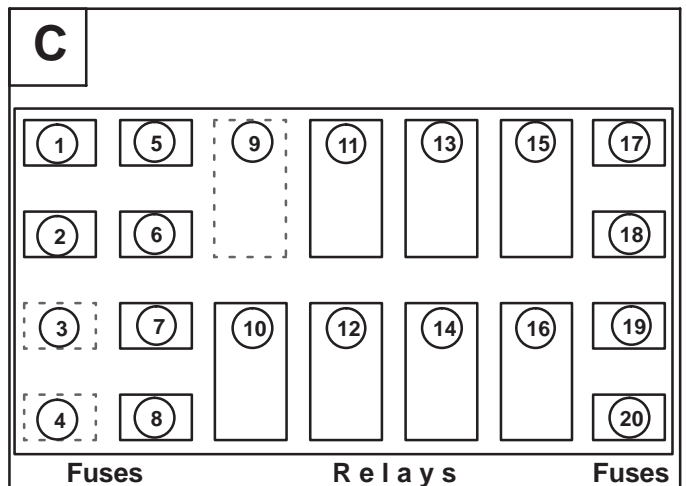
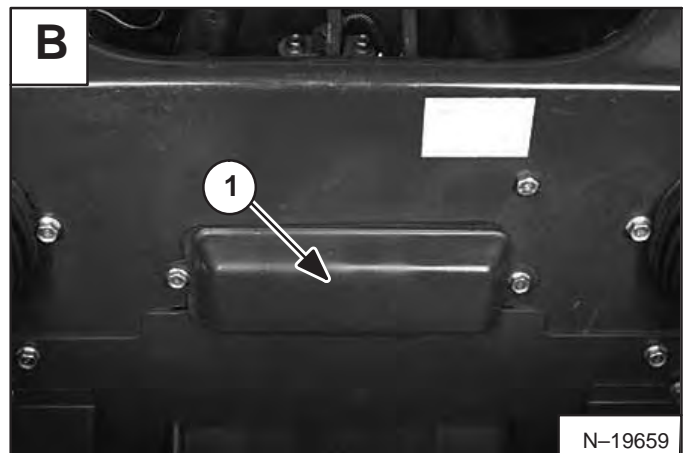
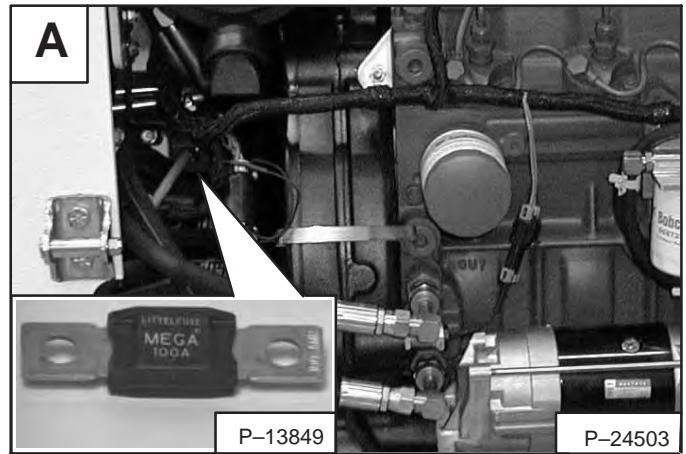
The electrical system is protected from overload by fuses and relays under the fuse panel cover (Item 1) [B] A decal is inside the cover to show location and amp ratings.

Remove the cover to check or replace the fuses.

The location and sizes are shown below and [C].

Ref	Description	Amp.	Ref	Description	Amp.
1	Traction	30	11	Front & Marker Lights R	
2	Fuel Shutoff	30	12	Fuel Shutoff	R
3	Not Used	--	13	Rear Lights	R
4	Not Used	--	14	Traction	R
5	Heater	25	15	Switch Power	R
6	Front & Marker Lights	15	16	Starter	R
7	Rear Lights	15	17	Unswitched Attach.	25
8	Bobcat Controller	25	18	Switched Attach.	25
9	Not Used	--	19	Alt. & Accessories	25
10	Glow Plugs	R	20	Accessory Plug	25

R – Relay



DRIVE BELT (Cont'd)

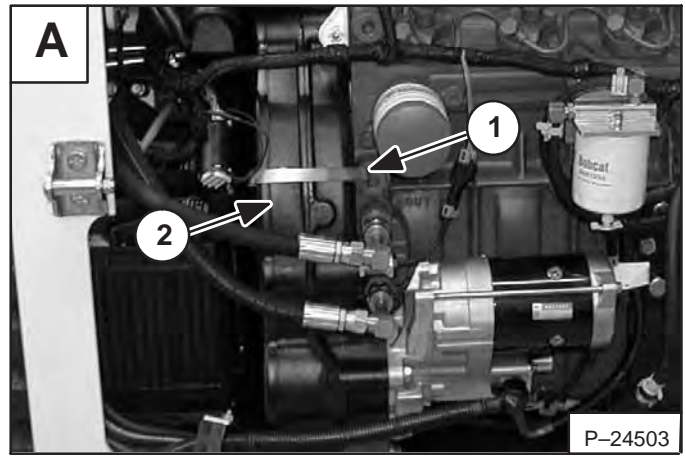
Replacing The Drive Belt

Stop the engine.

Open the rear door.

Remove the three belt shield fasteners (Item 1) [A].

Remove the belt shield (Item 2) [A].

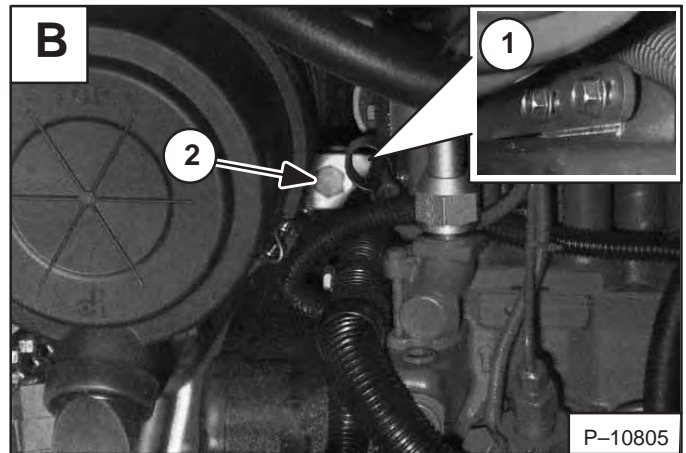


Loosen the two stop mounting bolts (Item 1) [B].

Loosen the spring tension bolt (Item 2) [B].

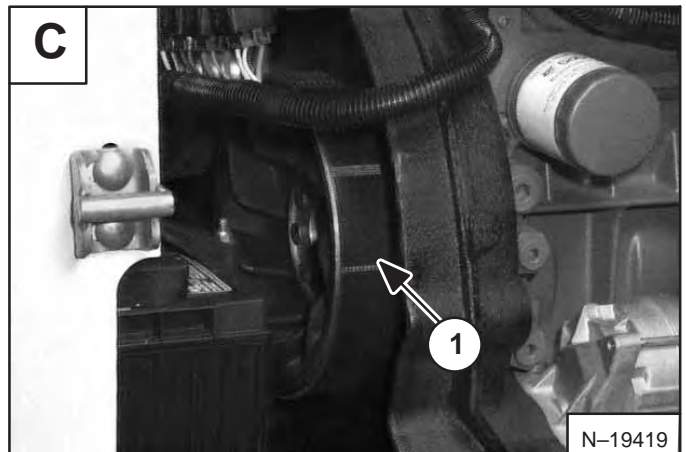
Remove the fan drive belt from the tensioner pulley.

Remove the drive belt from the hydrostatic pump, and flywheel pulley.



Remove the drive belt (Item 1) [C].

Install new drive belt and adjust the drive belt idler arm stop (See *Adjusting The Drive Belt* Page 70).

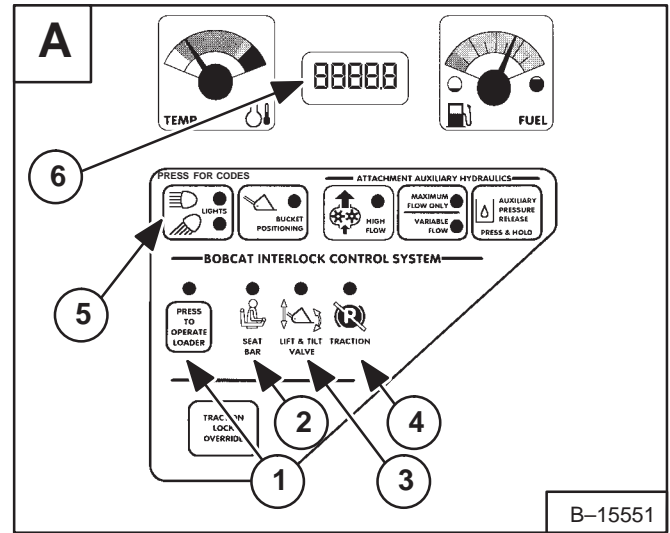






BOBCAT INTERLOCK CONTROL SYSTEM (BICS™)

Troubleshooting Chart

The following chart shows the effects which can happen to the loader, and the probable causes when the BICS Instrument Panel lights are off. See [A] for location of BICS lights and Icons. Have service procedures performed ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL.

Press and hold LIGHTS Button (Item 5) [A] for two seconds to view SERVICE CODES in the HOURMETER / CODE DISPLAY (Item 6) [A]. If more than one SERVICE CODE is present, the codes will scroll on the HOURMETER / CODE DISPLAY.



Indicator Light	Light ON	Light OFF	Effect on Operation of Loader When Light is OFF	NOTES: Multiple SERVICE CODES and/or Abnormal Symptoms can be caused by corroded or loose ground. Check grounds and both battery connections. ERROR OFF = shorted to ground or bad fuse, faulty wiring, faulty open relay, no voltage from relay to controller. ERROR ON = shorted to battery voltage, faulty wiring, faulty closed relay. * Normal BICS operating voltage is less than the electrical system voltage.		
	PRESS TO OPERATE LOADER Button is pressed.	PRESS TO OPERATE LOADER Button is not pressed.	Lift, tilt and traction functions will not operate.	SERVICE CODE Means System Error (See Your Bobcat Dealer for Service)		
	No. of Flashes	Service Code	Causes			
	Seat Bar is down.	Seat Bar is up.	Lift, tilt and traction functions will not operate.	2	11-05	Seat Bar sensor circuit shorted to battery voltage.*
	3	11-06	Seat Bar sensor circuit shorted to ground.			
	Control valve can be used.	Control valve cannot be used.	Lift, tilt and traction functions will not operate.	1	17-07	Valve output circuit is open.
				2	17-05	Valve output circuit shorted to battery voltage.*
				3	17-06	Valve output circuit shorted to ground.
				3	17-06	Controller not grounded or intermittent ground.
	Loader can be moved forward & backward.	Loader cannot be moved forward and backward.	Loader cannot be moved forward and backward.	1	16-07	Traction lock hold solenoid circuit is open.
				2	16-05	Traction lock hold solenoid circuit shorted to battery voltage.*
				3	16-06	Traction lock hold solenoid circuit shorted to ground.
SEAT BAR (2) LIFT & TILT VALVE (3) TRACTION (4)				Continuous Flashing	03-09 03-10	System voltage low System voltage high

! WARNING			
AVOID INJURY OR DEATH			
			TO LEAVE THE LOADER:
NEVER USE THE LOADER WITHOUT INSTRUCTIONS. READ OPERATION AND MAINTENANCE MANUAL AND HANDBOOK.	USE SEAT BAR. FASTEN SEAT BELT SECURELY.	KEEP FEET ON FOOTRESTS.	1 LOWER THE LIFT ARMS. PUT ATTACHMENT FLAT ON GROUND.
			2 STOP THE ENGINE.
DO NOT TRAVEL OR TURN WITH LIFT ARMS UP. LOAD, UNLOAD AND TURN ON FLAT LEVEL GROUND. DO NOT EXCEED RATED OPERATING CAPACITY (SEE SIGN ON LOADER).	NEVER MODIFY EQUIPMENT OR USE ATTACHMENTS NOT APPROVED BY MELROE COMPANY.	ON SLOPES, KEEP HEAVY END OF LOADER UPHILL.	3 ENGAGE THE BRAKE.
			4 RAISE SEAT BAR. MOVE CONTROLS UNTIL BOTH LOCK (MECHANICAL ONLY).
<small>Weitere Anweisungen finden sie in der Bedienungs- und Instandhaltungsanleitung. Para más instrucciones, vea el Manual de Operación y Mantenimiento. Voir le Manuel de l'opérateur et d'entretien pour d'autres renseignements. 53518 SW 99 6718389</small>			

Solamente con control de mano

ADVERTENCIA (SPANISH)

EVITE HERIDAS O LA MUERTE

NO USE NUNCA EL CARGADOR SIN LEER LAS INSTRUCCIONES.
LEA EL MANUAL DEL OPERATIO, EL MANUAL DE SERVICIO Y LA GIA DEL OPERARIO.

NO VIAJE O DE LA VUELTA CON LOS BRAZOS DE ELEVACION ARRIBA.
CARGUE, DESCARGUE Y DE LA VUELTA ESTANDO EN UN SITIO PLANO Y NIVELADO.
NO EXCEDA LA CAPACIDAD NOMINAL DE FUNCIONAMIENTO (VEA EL AVISO EN EL CARGADOR).

USE LA BARRA DEL ASIENTO.
ASEGURESE BIEN EL CINTURON DE SEGURIDAD.

NUNCA MODIFIQUE EL EQUIPO NI USE ADITAMENTOS QUE NO ESTEN APROBADOS POR LA COMPAÑIA BOBCAT.

MANTENGA LOS PIES EN LOS PEDALES.

EN LA PENDIENTES, MANTENGA EL EXTREMO PESADO DE CARGADOR EN POSICION ASCENDENTE.

ANTES DE BAJARSE DEL CARGADOR

1. BAJE LOS BRAZOS DE ELEVACION.
COLOQUE EL ADITAMENTO BEIN EN EL SUELO.
2. PARE EL MOTOR
3. PONGA EL FRENO.
4. LEVANTE LA BARRA DEL ASIENTO.
MUEVA LOS PEDALES HASTA QUE AMBOS SE TRABEN.

Commande à la main seulement

ATTENTION (FRENCH)

EVITER LES BLESSURES OU LA MORT

NE JAMAIS SE SERVIR DE LA CHARGEUSE SANS INSTRUCTIONS.
LIRE LE MANUEL DE L'OPERATEUR EL D'ENTRETIEN AINSI QUE LE GUIDE D'UTILISATION.

NE PAS SE DEPLACER NI VIRER AVEC LE BRAS RELEVES.
CHARGER, DECHARGER ET VIRER SUR UN SOL PLAT ET HORIZONTAL.
NE PAS DEPASSER LE CAPACITE NOMINALE (CONSULTER L'AUTOCOLLANT APPOSE SUR LA CHARGEUSE).

UTILISER L'ARCEAU DE SECURITE.
ATTACHER SOIGNEUSEMENT LA CEINTURE DE SECURITE.

NE JAMAIS MODIFIER L'EQUIPEMENT NI SE SERVIR D'ACCESSOIRES QUE NE SONT PAS APPROUVES PAR BOBCAT.

MANTENIR LES PIEDS SUR LES PEDALES.

DANS LES PENTES, TOUJOURS MAINTENIR LA PARTIE LA PLUS LOURDE DE LA CHARGEUSE VERS LE HAUT.

POUR QUITTER LA CHARGEUSE:

1. ABAISSER LES BRAS DE LEVAGE.
POSER L'EQUIPEMENT A PLATE SUR LE SOL.
2. ARRETER LE MOTEUR.
3. ENCLENCHER LE FREIN DE STATIONNEMENT.
4. RELEVER L'ARCEAU DE SECURITE.
DEPLACER LES PEDALES JUSQU'A CE QU'ELLES SOIENT TOUTES DEUX VERROILLEES.

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